

CNA's Integrated Ship Database

Third Quarter CY 2012 Update

Gregory N. Suess • Lynette A. McClain • Linette O. Neal



CNA Interactive Software
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November 2013

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"PACIFIC OCEAN (April 23, 2013) - Amphibious assault ship USS Peleliu (LHA 5) sails the Pacific Ocean with amphibious transport dock ship USS Green Bay (LPD 20), middle, and amphibious dock landing ship USS Rushmore (LSD 47). Peleliu is the flagship for the Peleliu Amphibious Ready Group on deployment in the western Pacific region with Green Bay, Rushmore, and embarked 15th Marine Expeditionary Unit. (U.S. Navy Photo by Mass Communication Specialist 3rd Class Michael Duran/Released)"
(<http://www.flickr.com/photos/55244200@N05/8675382113>)

Commander, Naval Surface Force, U.S. Pacific Fleet. "Naval Surface Warriors—Flicker Photostream," Last accessed Jul. 24, 2013, at <http://www.flickr.com/photos/navalsurfaceforces/>.

Approved for distribution:

November 2013



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Introduction

Background

In this CNA Interactive Software document, we present the update of our Integrated Ship Database (ISDB) for the third quarter of calendar year 2012.

In this version of the ISDB, as in the previous ones, we bring together data on naval ships from several different online government sources into a single combined database tool. The ISDB makes ship data readily accessible for analysis and reporting. By continually maintaining and updating the database, we are better able to respond promptly to requests for information on ships from our sponsor¹, from other CNA research scientists and analysts, and from others in government as well.

Since our initial version in 2005 [1], we have published 26 quarterly updates [2–27]. They are all available online on the [Integrated Ship Database page](#) of CNA’s website, www.cna.org.

Outline of this document

We begin with a brief overview of the ISDB to orient you in a general way to the database. But if you are looking for details, please refer to the original 2005 user’s manual [1] and to the fourth quarter 2011 update [25]. In addition, the documentation of the second quarter 2012 update [27] discusses the changes we made due to the Military Sealift Command’s (MSC) organizational realignment of 2012 [28].

1. This work is being conducted as part of CNA’s Historic Fleet Employment Database Project, sponsored by the Deputy Chief of Naval Operations for Operations, Plans, and Strategy (N3/N5).

After the overview, we discuss our changes in the database because of modifications to the Naval Vessel Register (NVR), the MSC Ship Inventory, and the Maritime Administration's (MARAD) National Defense Reserve Fleet (NDRF) Inventory between July 1 and September 30, 2012.

Finally, we present ship counts and inventory summaries as of September 30, 2012.

ISDB overview

In this section, we present an overview of the Integrated Ship Database. We tell you where to find the database online and how to access it. Then we show how the Microsoft Excel database file is organized according to worksheet tabs for documentation, database navigation, data tables, and pivot tables for display and analysis.

Accessing the database

You can find all issues of the database on the Integrated Ship Database web page on CNA's web site (www.cna.org). The specific address for the main page for the database is at <http://www.cna.org/centers/operations-tactics/ship-database> [29]. Figure 1 illustrates the main page.

Figure 2 is a view of the bottom portion of the main page. It contains a list of the database products for calendar year 2012, a link to the Database Archive, and a list of our data source organizations and respective means of contact.

Figure 3 shows the top portion Database Archive web page. Here you will find all our database products between September 2005 and December 2011.

Figure 1. Main web page for the Integrated Ship Database

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CNA's Integrated Ship Database

CNA's Integrated Ship Database Second Quarter 2012 Update
Gregory N. Suess | Lynette A. McClain



CNA

CNA's Integrated Ship Database contains selected information on particular ships throughout the fleet's history. The database has been compiled from authorized online U.S. Navy and U.S. government sources, including:

- The [Navy's Naval Vessel Register SHIPS](#) website
- The [Military Sealift Command's Ship Inventory](#)
- The [Naval History & Heritage Command's Dictionary of American Naval Fighting Ships \(DANFS\)](#) and [Ship History/Command Operations Reports](#)
- The [Maritime Administration's National Defense Reserve Fleet \(NDRF\) Inventory Reports](#)
- The [Navy Chief of Information's United States Navy Fact File](#)

With the database, you can see the makeup of the Navy's Battleforce. You can find where ships are in their life cycle—authorized by Congress, under construction, in commission/in service, stricken from the Register, or disposed.

For additional detail on the layout of the database and for instructions on how to use it, please refer to our [overview](#)  in the December 2011 update or our original [2005 User's Manual](#) .

CNA's Integrated Ship Database was developed and is maintained by senior research scientist Greg Suess, Ph.D. (703.824.2231) and associate advisor Lynette McClain (703.824.2855). If you have any questions, please contact us. We also welcome your thoughts and suggestions on improvements in this product.

Figure 2. Lower section of the main database page

2013

June 2013

- › [ISDB2013-06.xls](#) 

March 2013

- › [ISDB2013-03.xls](#) 

2012

December 2012

- › [ISDB2012-12.xls](#) 

September 2012

- › [ISDB2012-09.xls](#) 

June 2012

- › [ISDB2012-06.xls](#)  Excel Macro-Enabled Worksheet (For Excel 2007 and 2010)
- › [ISDB2012-06.xls](#)  Excel 97-2003 Worksheet (For Excel 2003, Excel 2007 in Compatibility Mode, and Excel 2010 in Compatibility Mode)
- › [Documentation](#)

March 2012

- › [ISDB2012-03.xls](#) 
- › [ISDB2012-03.xls](#) 

Database Archive

- › [Click here to view database updates from 2005 to 2011](#)

(This page was last updated on October 21, 2013)

Data Sources

- › [Naval Vessel Register](#)
NFSH_NNSY_NVR_CUSTODIAN@NAVY.MIL
- › [U. S. Navy Fact File](#)
Marie Tillery 202.433.0572
- › [National Defense Reserve Fleet Inventory](#)
Barbara Voulgaris
- › [Military Sealift Command Ship Inventory](#)
Kevin Mabon 202.685.5319
- › [Naval History and Heritage Command](#)
Dan Jones 202.433.6801

Figure 3. The Database Archive web page

Home > Solution Centers > CNA's Center for Naval Analyses > Operations & Tactics Analysis > Integrated Ship Database >

CNA's Integrated Ship Database

[Back to the Integrated Ship Database main page](#)

Database Archive

(This page was last updated on February 14, 2013)

2011

- › December 2011 [\[X\]](#) and [\[cover memo\]](#)
- › ISDB2011-12.xls [\[X\]](#) Excel Macro-Enabled Worksheet (For Excel 2007 and 2010)
- › ISDB2011-12.xls [\[X\]](#) Excel 97-2003 Worksheet (For Excel 2003, Excel 2007 in Compatibility Mode, and Excel 2010 in Compatibility Mode)
- › Documentation [\[X\]](#)
- › September 2011 [\[X\]](#) and [\[cover memo\]](#)
- › June 2011 [\[X\]](#) and [\[cover memo\]](#)
- › March 2011 [\[X\]](#) and [\[cover memo\]](#)

2010

- › December 2010 [\[X\]](#) and [\[cover memo\]](#)
- › September 2010 [\[X\]](#) and [\[cover memo\]](#)
- › June 2010 [\[X\]](#) and [\[cover memo\]](#)
- › March 2010 [\[X\]](#) and [\[cover memo\]](#)

2009

- › December 2009 [\[X\]](#) and [\[cover memo\]](#)
- › September 2009 [\[X\]](#) and [\[cover memo\]](#)
- › June 2009 [\[X\]](#) and [\[cover memo\]](#)
- › March 2009 [\[X\]](#) and [\[cover memo\]](#)

2008

- › December 2008 [\[X\]](#) and [\[cover memo\]](#)
- › September 2008 [\[X\]](#) and [\[cover memo\]](#)
- › June 2008 [\[X\]](#) and [\[cover memo\]](#)
- › March 2008 [\[X\]](#) and [\[cover memo\]](#)

2007

- › December 2007 [\[X\]](#) and [\[cover memo\]](#)
- › September 2007 [\[X\]](#) and [\[cover memo\]](#)
- › June 2007 [\[X\]](#) and [\[cover memo\]](#)
- › March 2007 [\[X\]](#) and [\[cover memo\]](#)

2006

- › December 2006 [\[X\]](#) and [\[cover memo\]](#)
- › September 2006 [\[X\]](#) and [\[cover memo\]](#)
- › June 2006 [\[X\]](#) and [\[cover memo\]](#)
- › March 2006 [\[X\]](#) and [\[cover memo\]](#)

2005

- › September 2005 [\[X\]](#)

Organization of the ISDB file

The Document tab

Upon opening the database file, you will see the view in figure 4. The graphic of the document cover contains an associated hyperlink for immediate access to the documentation.

The Document tab is the first of ten tabs in the file. You can see the tabs at the bottom of the sheet.

The Directory tab

Figure 5 shows the next tab in the file—the Directory tab. The Directory helps you navigate to the various tabs in the database.

DataTableOriginal

The DataTableOriginal tab contains all the data. See figure 6 for a view of the top portion of the sheet. The rows in the sheet are the records of the database, one row for each ship unit. The columns are the database fields.

The records

We have colored the records in the database to depict the various Status categories:

- Authorized for construction 
- Under construction 
- Active 
- Naval Reserve Force, Active 
- Special, miscellaneous 
- In reserve 
- Leased or loaned 
- Stricken 

Figure 4. The Document tab

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
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51																
52																

The Document

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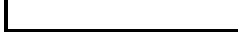
The Document The Directory DataTableOriginal_Sep 12 DataTableCopy Basic PivotTable QuikLook_5030.8A Battleforce Quik

Figure 5. The Directory tab

	A	B	C	D	E	F	G
1							
2							
3	The Database	DataTableOriginal Sep 12					
4							
5	Database Worksheet	DataTableCopy					
6							
7	Pivot Tables	The Basic Pivot Table					
8							
9		QuikLook Pivot Table on SECNAVINST 5030.8A Battleforce Ships					
10							
11		QuikLook Pivot Table on SECNAVINST 5030.8A Non-Battleforce Ships					
12							
13		QuikLook Pivot Table for NVR Ship Battle Forces					
14							
15		QuikLook Pivot Table for NVR Local Defense and Miscellaneous Support Forces					
16							
17		Ship Age PivotTable for Battleforce Ships					
18							
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35							
36							

Figure 6. DataTableOriginal

	A	B	C	D	E	F	G
1	Return to The Directory	Today is	Friday	September 6, 2013			
2	Ship Name	Abbrev	Prefix	Hull No. (NVR Link)	NVR Type	UIC	Status
3	NO NAME			AGS 66	AGS Surveying Ship	10544	Authorized, for US Navy construction
4	JOHN FINN			DDG 113	DDG Guided Missile Destroyer	20010	Authorized, for US Navy construction
5	RALPH JOHNSON			DDG 114	DDG Guided Missile Destroyer	50125	Authorized, for US Navy construction
6	RAFAEL PERALTA			DDG 115	DDG Guided Missile Destroyer	50126	Authorized, for US Navy construction
7	MICHAEL MONSOOR			DDG 1001	DDG Guided Missile Destroyer	23189	Authorized, for US Navy construction
8	NO NAME			DDG 1002	DDG Guided Missile Destroyer	4163	Authorized, for US Navy construction
9	MILWAUKEE			LCS 5	LCS Littoral Combat Ship	20134	Authorized, for US Navy construction
10	JACKSON			LCS 6	LCS Littoral Combat Ship	20135	Authorized, for US Navy construction
11	DETROIT			LCS 7	LCS Littoral Combat Ship	20136	Authorized, for US Navy construction
12	MONTGOMERY			LCS 8	LCS Littoral Combat Ship	20137	Authorized, for US Navy construction
13	JOHN P. MURTHA			LPD 28	LPD Amphibious Transport Dock	23182	Authorized, for US Navy construction
14	NORTH DAKOTA			SSN 784	SSN Submarine (Nuclear-Powered)	20037	Authorized, for US Navy construction
15	JOHN WARNER			SSN 785	SSN Submarine (Nuclear-Powered)	20038	Authorized, for US Navy construction
16	NO NAME			SSN 786	SSN Submarine (Nuclear-Powered)	20181	Authorized, for US Navy construction
17	NO NAME			SSN 787	SSN Submarine (Nuclear-Powered)	20182	Authorized, for US Navy construction
18	NO NAME			SSN 788	SSN Submarine (Nuclear-Powered)	27150	Authorized, for US Navy construction
19	NO NAME			SSN 789	SSN Submarine (Nuclear-Powered)	27151	Authorized, for US Navy construction
20	NO NAME			SSN 790	SSN Submarine (Nuclear-Powered)	27152	Authorized, for US Navy construction
21	NO NAME			SSN 791	SSN Submarine (Nuclear-Powered)	27153	Authorized, for US Navy construction
22	FORTITUDE			JHSV 3	JHSV Joint High Speed Vessel	29786	Authorized, for US Navy construction
23	FALL RIVER			JHSV 4	JHSV Joint High Speed Vessel	29787	Authorized, for US Navy construction
24	RESOLUTE			JHSV 5	JHSV Joint High Speed Vessel	29788	Authorized, for US Navy construction
25	NO NAME			JHSV 6	JHSV Joint High Speed Vessel	29789	Authorized, for construction
26	COURAGEOUS			JHSV 7	JHSV Joint High Speed Vessel	29790	Authorized, for construction
27	NO NAME			LPD 27	LPD Amphibious Transport Dock	3277A	Hull number assigned, authorized to be built, construction con awarded
28	CESAR CHAVEZ			AKE 14	AKE Dry Cargo and Ammunition Ship	29003	Under construction in US by Navy, unassigned to fleet
29	GERALD R. FORD			CVN 78	CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)	23173	Under construction in US by Navy, unassigned to fleet
30	ZUMWALT			DDG 1000	DDG Guided Missile Destroyer	20121	Under construction in US by Navy, unassigned to fleet
31	CHOCTAW COUNTY			JHSV 2	JHSV Joint High Speed Vessel	29785	Under construction in US by Navy, unassigned to fleet
32	CORONADO			LCS 4	LCS Littoral Combat Ship	20131	Under construction in US by Navy, unassigned to fleet
33	AMERICA			LHA 6	LHA Amphibious Assault Ship (General Purpose)	20103	Under construction in US by Navy, unassigned to fleet
34	ARLINGTON	ARL		LPD 24	LPD Amphibious Transport Dock	23180	Under construction in US by Navy, unassigned to fleet
35	SOMERSET	SDM		LPD 25	LPD Amphibious Transport Dock	23181	Under construction in US by Navy, unassigned to fleet
36	MINNESOTA	MN		SSN 783	SSN Submarine (Nuclear-Powered)	20034	Under construction in US by Navy, unassigned to fleet
37	SPEARHEAD			JHSV 1	JHSV Joint High Speed Vessel	29784	Under construction in US for US Army, NAVSEA is the contractor
38	CONSTITUTION			USS "Old Ironsides"	Other	0024	Active, in commission
39	PUEBLO	PBL	USS	AGER 2	AGER Environmental Research Ship	20256	Active, in commission
40	BUNKER HILL	BKH	USS	CG 52	CG Guided Missile Cruiser	21345	Active, in commission
41	MOBILE BAY	MOB	USS	CG 53	CG Guided Missile Cruiser	21346	Active, in commission
42	ANTIETAM	ANT	USS	CG 54	CG Guided Missile Cruiser	21387	Active, in commission
43	LEVY GULF	LTG	USS	CG 55	CG Guided Missile Cruiser	21388	Active, in commission
44	SAN JACINTO	SJA	USS	CG 56	CG Guided Missile Cruiser	21389	Active, in commission
45	LAKE CHAMPLAIN	LKC	USS	CG 57	CG Guided Missile Cruiser	21428	Active, in commission
46	PHILIPPINE SEA	PSE	USS	CG 58	CG Guided Missile Cruiser	21429	Active, in commission
47	PRINCETON	PRN	USS	CG 59	CG Guided Missile Cruiser	21447	Active, in commission
48	NORMANDY	NDR, NMD	USS	CG 60	CG Guided Missile Cruiser	21449	Active, in commission
49	MONTEREY	MTY	USS	CG 61	CG Guided Missile Cruiser	21450	Active, in commission
50	CHANCELLORSVILLE	CHV	USS	CG 62	CG Guided Missile Cruiser	21451	Active, in commission
51	CWOPENS	COW	USS	CG 63	CG Guided Missile Cruiser	21623	Active, in commission

• Donated as museum, memorial	
• Disposed	
• Lost, sunk	
• Military Sealift Command	
• MARAD/NDRF	
• Hull number assigned, not built	
• Reclassed	
• No NVR status	
• Historical from PMARS ² , DANFS ³ , www.navy.mil	

The fields

The ISDB is made up of 32 fields. They include:

- Ship Name
- Abbrev (for ship abbreviation or trigraph)
- Prefix
- Hull number (with link to [NVR web page](#))
- NVR Type
- UIC (for Unit Identification Code)
- Status
- Date Status Changed
- Class (with link to [Navy Fact File](#))
- NVR Force

2. PMARS: MARAD's Property Management and Archive Record System
 3. DANFS: Dictionary of American Naval Fighting Ships from the Naval History & Heritage Command (NHHC)

- 5030.8A Force
- 5030.8A Ship Category
- 5030.8A Ship Classification
- 5030.8A Ship Type
- [MSC Ship Link](#)
- MSC Type (with link to MSC Program page, e.g. to [Sealift \(PM5\) page](#))
- MARAD/NDRF Program-Type/Status (with link to [NDRF page](#))
- DANFS Entry (with link to [NHHC's DANFS ship page](#))
- Ship History Report (with link to [NHHC's Ship Histories/Command Operations Reports Index](#))
- Homeport (with link to [NVR Homeport page](#))
- Previous, Other Names
- Award Date
- Keel Date
- Launch Date
- Delivery Date
- Commission Date
- Age
- Decommission/Out Of Action (OOA) Date
- Inactivation Date
- Stricken Date
- Date last updated
- Additional Comments, References

DataTableCopy

We have protected the DataTableOriginal page to prevent unintentional data changes and maintain configuration control. With page protection, however, Microsoft Excel inhibits some features.

By copying DataTableOriginal into the blank DataTableCopy, all features are available. With this table, you can modify the contents of DataTableOriginal to suit your needs, while preserving the data table in its original form on the DataTableOriginal sheet.

The Pivot Tables

We've used Excel Pivot Tables to display the contents of the database in several different summary forms. Pivot Tables enable you to examine the contents of the database at varying levels of specificity.

BasicPivotTable

As shown in figure 7, the Basic Pivot Table presents a view of the makeup of the entire ISDB. There, you can see the distribution of the 3,188 ship records by Ship Status Group.

To demonstrate the ease and flexibility of pivot tables in Excel, we present a sequence from the fully compressed Basic Pivot Table in figure 7 to a fully expanded view of the Active Status Group in figure 10.

First, we need to filter the table to present only the Active Status Group. Figure 8 shows the drop-down menu for column A with the Active Status Group selected.

Figure 9 then displays how to expand the compressed Active Status Group into the specific individual ship Status type, NVR Ship Type, Hull Number, and Ship Name. A right-click in the Status Group cell produces the drop-down menu with which the entire Status Group field can be expanded. Figure 10 is the top portion of the resulting expansion.

Figure 7. Basic Pivot Table

A	B	C	D	E	F
1	Return to The Directory				
2					
3	Count of Ship Name				
4	Status Group	Status	NVR Type	Hull No. (NVR Link)	Ship Name
5	Authorized				25
6	Under construction				10
7	Active				250
8	Naval Reserve Force, Active				8
9	Inactive, Out of Commission/Service, or In reserve				13
10	Stand Down				1
11	Leased				7
12	Loan				2
13	Stricken				102
14	Disposed				1,973
15	Special, Miscellaneous (MSC Chartered and MARAD/NDRF Ready Reserve Force (RRF)				58
16	Military Sealift Command (MSC), Not in NVR (Prepositioning Program)				3
17	Military Sealift Command (MSC), Not in NVR (Sealift Program)				3
18	Military Sealift Command, Contract Operated				33
19	Military Sealift Command, Naval Fleet Auxiliary Force				44
20	Military Sealift Command, Special Mission Ships				23
21	Other NVR				52
22	Other, Not in NVR				581
23	Grand Total				3,188

Figure 8. Filtering on the Active Status Group using column A drop-down menu

A

Return to The Directory

3 Count of Ship Name

4 Status Group

5 Authorized

6 Under construction

7 Active

8 Naval Reserve Force, Active

9 Inactive, Out of Commission/Service, or In

10 Stand Down

11 Leased

12 Loan

13 Stricken

14 Disposed

15 Special, Miscellaneous (MSC Chartered)

16 Military Sealift Command (MSC) Not in N

17 Military Sealift Command (MSC) Not in N

18 Military Sealift Command, Contract Opera

19 Military Sealift Command, Naval Fleet Au

20 Military Sealift Command, Special Missio

21 Other NVR

22 Other, Not in NVR

23 Grand Total

24

25

26

27

28

29

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31

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33

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35

36

37

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39

40

41

42

43

44

45

B

Status

NVR Type

Hull No. (NVR Link)

Ship Name

Total

25

10

250

8

13

1

7

2

102

1,973

58

3

33

44

23

52

581

3,188

C

D

E

F

OK Cancel

The Document The Directory DataTableOriginal_Sep 12 DataTableCopy Basic PivotTable QuikLook_5030.8A Batt

Figure 9. Expanding the entire Status Group field

The screenshot shows a Microsoft Excel spreadsheet with a PivotTable. The PivotTable has the following structure:

	B	C	D	E	F
1					
2					
3	Count of Ship Name				
4	Status Group				
5	Active				
6	Grand Total				
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
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A context menu is open over the cell containing "Status Group". The menu is as follows:

- Copy
- Format Cells...
- Refresh
- Sort
- Filter
- Subtotal "Status Group"
- Expand/Collapse
 - Expand
 - Collapse
 - Expand Entire Field
 - Collapse Entire Field
 - Collapse to "Status Group"
 - Expand to "Status"
 - Expand to "NVR Type"
 - Expand to "Hull No.(NVR Link)"
 - Expand to "Ship Name"
- Group...
- Ungroup...
- Move
- Remove "Status Group"
- Field Settings...
- PivotTable Options...
- Show Field List

The "Expand Entire Field" option is highlighted.

Figure 10. Top portion of fully expanded Basic Pivot Table

	A	B	C	D	E	F
1	Return to The Directory					
2						
3	Count of Ship Name					
4	Status Group	Status	NVR Type	Hull No. (NVR Link)	Ship Name	Total
5	Active					243
6	Active, in commission					
7	AGER Environmental Research Ship					
8	CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)					
9	CG Guided Missile Cruiser					
10	DDG Guided Missile Destroyer					
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The QuikLook Pivot Tables

The QuikLook Pivot Tables present the compositions and counts of ships according to two different conventions that define Navy, MSC, and NDRF forces.

The first convention is specified in the Secretary of the Navy's Instruction 5030.8A on *General Guidance for the Classification of Naval Vessels and Battleforce Ship Counting* [30]. At the highest level, Instruction 5030.8A distinguishes between Battleforce⁴ and Non-Battleforce ships.

The second convention is that used by the Naval Vessel Register in its database field named "Force." This convention was formerly used for Navy budgeting, planning, and programming [31]. At the highest level, ships are assigned to either the Ship Battle Forces⁴ or to the Local Defense and Miscellaneous Support Force.

QuikLook_5030.8A Battleforce. Figure 11 shows the composition of the 5030.8A Battleforce by Ship Category, Ship Classification, and Ship Type as defined in this Instruction.

QuikLook_NVR Ship Battle Force. The makeup of the NVR Ship Battle Force is by NVR Force, Status Group, Status, and Ship Type as shown in figure 12.

Quiklook 5030.8A Non-Battleforce. Figure 13 shows the organization of the non-Battleforce ships according to the 5030.8A Instruction in this pivot table.

QuikLook_NVRLocDef&MiscSptForce. The composition of the Local Defense and Miscellaneous Support Forces of the NVR convention is displayed in figure 14.

4. Over the years, the term, "battle force," has been defined differently and taken different forms in the various ship classification and counting schemes. To emphasize the existence of these differences and hopefully minimize ambiguity, we retain the forms used in the respective source documents cited here.

Figure 11. Composition of the 5030.8A Battleforce by ship classification and ship type as displayed in the *QuikLook_5030.8A Battleforce* pivot table

A	B	C	FOR NVR'S CURRENT PAGE ON SHIP BATTLE FORCES, CLICK HERE				G
1	Return to The Directory						
2							
3	Count of Ship Name						
4	5030.8A Force	5030.8A Ship Category	5030.8A Ship Classification	5030.8A Ship Type	Hull No.	Ship Name	Total
5	Battleforce	Combatant Ship	Warship/Aircraft Carrier	Conventional Take Off and Landing Aircraft Carriers/Multi-purpose Aircraft Carrier (nuclear-powered)	11		
6			Warship/Surface Combatant	Cruisers/Guided Missile Cruiser	11		
7				Destroyers/Guided Missile Destroyer	22		
8				Frigates/Guided Missile Frigate	62		
9				Littoral Combat Ship/Littoral Combat Ship	23		
10				Attack Submarines/Submarine (nuclear-powered)	3		
11				Ballistic Missile Submarines/Ballistic Missile Submarine (nuclear-powered)	72		
12				Guided Missile Submarines/Guided Missile Submarine (nuclear-powered)	54		
13				Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (general purpose)	14		
14				Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (multi-purpose)	4		
15				Amphibious Helicopter and Landing Craft Carriers/Amphibious Transport Dock	29		
16				Landing Craft Carriers/Dock Landing Ship	1		
17				Underway Replenishment/Fast Combat Support Ship	8		
18				Underway Replenishment/Ammunition Ship	12		
19				Underway Replenishment/Dry Cargo and Ammunition Ship	13		
20				Underway Replenishment/Oiler	15		
21				Command/Command Ship	18		
22				Fleet Ocean Tugs/Fleet Ocean Tugs	2		
23				Material Support/Submarine Tender	4		
24				Salvage Ships/Salvage Ships	2		
25				Surveillance/Surveillance	4		
26				Seabasing Support/Afloat Forward Staging Base (Interim)	5		
27				Mine Countermeasures Ships/Mine Countermeasures Ship	1		
28			Combatant Ship Total		14		
29					287		
30							
31							
32							
33							
34							
35							
36	Grand Total						287
37							
38							
39							

Figure 12. Makeup of the Ship Battle Forces as displayed in the *QuikLook_NVR Ship Battle Force* pivot table

A		B		C		D		E		F		G	
				FOR NVR'S CURRENT PAGE ON SHIP BATTLE FORCES. CLICK HERE									
1		2		3		4		5		6		7	
NVR Force		Status Group		Status		NVR Type		Hull No. (NVR Link)		Ship Name		Total	
<input checked="" type="checkbox"/> Battle Force		<input checked="" type="checkbox"/> Active		<input checked="" type="checkbox"/> Active, in commission		<input checked="" type="checkbox"/> CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)						228	
						<input checked="" type="checkbox"/> CG Guided Missile Cruiser						11	
						<input checked="" type="checkbox"/> DDG Guided Missile Destroyer						22	
						<input checked="" type="checkbox"/> FFG Guided Missile Frigate						62	
						<input checked="" type="checkbox"/> LCC Amphibious Command Ship						15	
						<input checked="" type="checkbox"/> LCS Littoral Combat Ship						1	
						<input checked="" type="checkbox"/> LHA Amphibious Assault Ship (General Purpose)						3	
						<input checked="" type="checkbox"/> LHD Amphibious Assault Ship (Multi-Purpose)						1	
						<input checked="" type="checkbox"/> LPD Amphibious Transport Dock						8	
						<input checked="" type="checkbox"/> LSD Dock Landing Ship						7	
						<input checked="" type="checkbox"/> MCM Mine Countermeasures Ship						12	
						<input checked="" type="checkbox"/> SSBN Ballistic Missile Submarine (Nuclear-Powered)						14	
						<input checked="" type="checkbox"/> SSBN Guided Missile Submarine (Nuclear-Powered)						14	
						<input checked="" type="checkbox"/> SSN Submarine (Nuclear-Powered)						4	
						<input checked="" type="checkbox"/> LPD Amphibious Transport Dock						54	
						<input checked="" type="checkbox"/> LCC Amphibious Command Ship						1	
						<input checked="" type="checkbox"/> AFSB Afloat Forward Staging Base Interim						1	
						<input checked="" type="checkbox"/> T-AE Ammunition Ship						2	
						<input checked="" type="checkbox"/> T-AO Oiler						1	
						<input checked="" type="checkbox"/> T-AOE Fast Combat Support Ship						15	
						<input checked="" type="checkbox"/> T-AKE Dry Cargo and Ammunition Ship						4	
						<input checked="" type="checkbox"/> T-AE Ammunition Ship						13	
						<input checked="" type="checkbox"/> T-AO Oiler						33	
						<input checked="" type="checkbox"/> T-AOE Fast Combat Support Ship						1	
						<input checked="" type="checkbox"/> T-AKE Dry Cargo and Ammunition Ship						1	
						<input checked="" type="checkbox"/> T-AE Ammunition Ship						2	
						<input checked="" type="checkbox"/> T-AO Oiler						8	
						<input checked="" type="checkbox"/> T-AOE Fast Combat Support Ship						8	
						<input checked="" type="checkbox"/> T-AKE Dry Cargo and Ammunition Ship						2	
						<input checked="" type="checkbox"/> AS Submarine Tender						8	
						<input checked="" type="checkbox"/> T-ARS Salvage Ship						4	
						<input checked="" type="checkbox"/> T-ATF Fleet Ocean Tug						4	
						<input checked="" type="checkbox"/> T-ATF Fleet Ocean Tug						5	
						<input checked="" type="checkbox"/> T-AGOS Ocean Surveillance Ship						5	
						<input checked="" type="checkbox"/> T-AGOS Ocean Surveillance Ship						287	
Grand Total													
45													
46													
47													

14

Figure 13. 5030.8A non-Battleforce composition as displayed in the *QuikLook_5030.8A NonBattleForce* pivot table

A	B	C	D	E	F	G
1	Return to The Directory					
2	Count of Ship Name					
3	5030.8A Force	5030.8A Ship Category	5030.8A Ship Classification	5030.8A Ship Type	Hull No.	Ship Name
4	Non-Battleforce					Total
5		Combatant Craft				13
6			Patrol Combatant			
7				Patrol Ships/Patrol Coastal		13
8		Auxiliary Ship				42
9			Auxiliary/Support Type Ship			
10				Other Auxiliaries/Cable Repairing Ship		1
11				Other Auxiliaries/Cargo Ship		11
12				Other Auxiliaries/Hospital Ship		2
13				Other Auxiliaries/Missile Range Instrumentation Ship		1
14				Other Auxiliaries/Oceanographic Research Ship		7
15				Other Auxiliaries/Vehicle Cargo Ship		19
16				Other Auxiliaries/Transport Oiler		1
17	Grand Total					55
18						
19						
20						
21						
22						
23						
24						
<input type="button" value="QuikLook_5030.8A Battleforce"/> <input type="button" value="QuikLook_NVR Ship Battle Force"/> <input type="button" value="QuikLook_5030.8A NonBattleforce"/> <input type="button" value="Q"/> <input type="button" value=""/> <input type="button" value=""/>						

Figure 14. QuikLook pivot table for the Local Defense and Miscellaneous Support Forces of the NVR convention, *QuikLook_NVRLocDef&MiscSptForce*.

A	B	C	D	E	F	G
1	Return to The Directory					
2						
3	Count of Ship Name					
4	NVR Force	Status Group	Status	NVR Type	Hull No. (NVR Link)	Ship Name
5	▪ Auxiliary	▪ Active	▪ Active, in commission	▪ PC Patrol Coastal	13	
6					13	
7						
8		▪ Military Sealift Command (MSC), Naval Fleet Auxiliary Force	▪ Military Sealift Command (MSC) Naval Fleet Auxiliary Force (Service Support Program)	▪ T-ARC Cable Repairing Ship	1	
9						
10						
11		▪ Military Sealift Command (MSC), Special Mission Support	▪ Military Sealift Command (MSC), Special Mission Ships (Special Mission Program)	▪ T-AGS Surveying Ship	7	
12						
13						
14						
15		▪ Military Sealift Command (MSC), Naval Fleet Auxiliary Force	▪ Military Sealift Command (MSC) Naval Fleet Auxiliary Force (Service Support Program)	▪ T-AGM Missile Range Instrumentation Ship	1	
16						
17						
18						
19		▪ Special, Miscellaneous	▪ Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. (Prepositioning Program)	▪ T-AH Hospital Ship	2	
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33		▪ Military Sealift Command (MSC), Contract Operated	▪ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces / Former MSC	▪ AVB Aviation Logistic Support Ship	2	
34						
35						
36						
37						
38						
39						
40						
41		▪ Disposed	▪ Military Sealift Command (MSC), in service, contract operated (Prepositioning Program)	▪ ACS Auxiliary Crane Ship	6	
42						
43	Grand Total					
44						
45						

ShipAge Pivot Table

The final pivot table in the data file is named *ShipAge Pivot Table*. You can see the opening view of the table in figure 15. This table presents the age-of-ship data for Battleforce ships in the various 5030.8A ship-type groups. The ages displayed upon opening the file are either: (1) the ages computed as of the date when the database was finalized, or (2) the ages as of the last “Refresh” of the pivot table.⁵

The pivot table shows the number of ships within each group, the average age of ships in the group, the age of the oldest ship, and the age of the newest ship delivered.

5. To refresh the ship age calculation, you can right-click anywhere on the table and select “Refresh.” Or you can go to the Data tab and use the various options under the “Refresh All” button in the “Connections” section of the “Ribbon.”

Figure 15. View of the Ship-Age Pivot Table

	A	B	C	D	E	F	G	H	I	J	K	L
					Data							
					Hull No.	Ship Name	Delivery Date	Count of Age	Average of Age	Max of Age	Min of Age	
4	5030.8A Force	5030.8A Ship Category	5030.8A Ship Classification	5030.8A Ship Type				11	25.1	517	4.2	
5	Battleforce	Combatant Ship	Warship/Aircraft Carrier	Conventional Take Off and Landing Aircraft Carriers/Multi-purpose Aircraft Carrier (nuclear-powered)				11	25.1	517	4.2	
6			Warship/Aircraft Carrier Total					22	23.2	27.0	19.2	
7			Warship/Surface Combatant	Cruisers/Guided Missile Cruiser				62	12.3	22.2	12	
8				Destroyers/Guided Missile Destroyer				23	28.5	30.5	24.0	
9				Frigates/Guided Missile Frigate				3	3.2	4.8	1.1	
10				Littoral Combat Ship/Littoral Combat Ship				110	17.6	30.5	11	
11			Warship/Surface Combatant Total					54	20.9	32.4	19	
12			Warship/Submarine	Attack Submarines/Submarine (nuclear-powered)				14	22.6	28.8	15.9	
13				Ballistic Missile Submarines/Ballistic Missile Submarine (nuclear-powered)				4	30.6	31.7	23.5	
14				Guided Missile Submarines/Guided Missile Submarine (nuclear-powered)				72	21.8	32.4	19	
15			Warship/Submarine Total					1	33.3	33.3	33.3	
16			Warship/Amphibious Warfare	Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (general purpose)				8	16.4	24.2	4.3	
17				Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (multi-purpose)				8	10.8	44.7	16	
18				Amphibious Helicopter and Landing Craft Carriers/Amphibious Transport Dock				12	22.1	28.5	15.4	
19				Landing Craft Carriers/Dock Landing Ship				29	18.1	44.7	16	
20			Warship/Amphibious Warfare Total					13	4.5	7.1	1.8	
21			Other Combatant/Combat	Underway Replenishment/Dry Cargo and Ammunition Ship				4	18.0	19.5	15.3	
22				Underway Replenishment/Flight Combat Support Ship				1	41.7	41.7	41.7	
23				Underway Replenishment/Ammunition Ship				15	22.0	26.6	17.2	
24				Underway Replenishment/Oiler				33	15.5	41.7	18	
25			Other Combatant/Combat Logistics Total					2	42.5	42.6	42.4	
26			Other Combatant/Fleet Support	Command/Command Ship				2	34.1	34.4	33.8	
27				Material Support/Submarine Tender				4	27.4	28.0	26.8	
28				Salvage Ships/Salvage Ships				4	32.6	33.1	32.0	
29				Fleet Ocean Tugs/Fleet Ocean Tugs				5	19.2	21.9	12.8	
30				Surveillance/Surveillance				1	42.1	42.1	42.1	
31				Seabasing Support/Albat Forward Staging Base (Interim)				18	29.5	42.6	12.8	
32			Other Combatant/Fleet Support Total					14	22.0	25.9	19.0	
33			Other Combatant/Mine Warfare Type Ships	Mine Countermeasures Ships/Mine Countermeasures Ship				14	22.0	25.9	19.0	
34			Other Combatant/Mine Warfare Type Ships Total					287	19.7	517	11	
35			Combatant Ship Total					287	19.7	517	11	
36			Grand Total					287	19.7	517	11	
37												
38												
39												
40												
41												
42												

QuikLook_5030.8A NonBattleforce QuikLook_NVRLocDef8MiscSptForce ShipAge PivotTable

Changes in database content for this quarter

Routine update of source data

We modified the database to account for the changes in our three major data sources through the quarter. As mentioned earlier, our sources include: (1) the NVR [32], (2) MSC's Ship Inventory [33], and (3) MARAD's NDRF Inventory [34].

We obtained the data from NVR by e-mail [35], from MSC's Ship Inventory "Show changes" web site [36], and from MARAD's monthly reports on the NDRF Inventory [37–39].

Changes in the ship forces

SECNAVINST 5030.8A Battleforce increases to 287 ships

During the third quarter, the number of ships in the Battleforce as defined in SECNAVINST 5030.8A increased from 286 to 287 ships [40]. One ship was delivered to the Navy and MSC: PCU *Anchorage* (LPD 23) on September 17, 2012.

Figure 11 shows the composition of the Battleforce at the end of the quarter by the classification scheme in the 5030.8A Instruction.

We verified the count and the changes against the Navy Operations Center's "OPNOTES/Worldwide Navy Distribution" and "CNO's Current Ops Brief" products [40].

NVR Ship Battle Forces at 287 ships

The composition of the Ship Battle Forces according to NVR's ship classification system as presented in ISDB's *Quiklook_NVR Ship Battle Forces* pivot table is shown in figure 12. The ships included here are the same as in the 5030.8A Battleforce. But the two ship classification schemes are different. A comparison of the two systems can be found in the documentation accompanying the December 2011 ISDB update [25].

SECNAVINST 5030.8A Non-Battleforce ship count at 55

During the third quarter the Navy's Non-Battleforce fleet was unchanged. The makeup of the force from our *QuikLook_5030.8A_NonBattleForce* pivot table is shown in figure 14. Our data are consistent with the Navy Ship Annual Supplemental Data Table (SASDT) of June 2012 [11].

NVR Local Defense and Miscellaneous Support Forces at 114 ships

According to the NVR's classification scheme, ships not in the Ship Battle Forces may fall into its Local Defense and Miscellaneous Support Forces organization. The ships in these forces include the ships in the 5030.8A Non-Battleforce. They also include ships in the Ready Reserve Force, reported in MARAD's National Defense Reserve Fleet Inventory reports. Figure 14 shows the makeup of these forces from our *Quiklook_NVRLocDef&MiscSptForce* pivot table.⁶

6. In our report for the previous quarter [27], we reported 113 ships in the Local Defense and Miscellaneous Support Force. In reviewing the data for this report, we found that our entry for Cape Jacob (AK 5029) did not include its status in the Strategic Sealift Force.

Glossary

DANFS	Dictionary of American Naval Fighting Ships
ISDB	Integrated Ship Database
MARAD	Maritime Administration
MSC	Military Sealift Command
NDRF	National Defense Reserve Fleet
NFAF	Naval Fleet Auxiliary Force
NHHC	Naval History and Heritage Command
NHPA	National Historic Preservation Act of 1966
NVR	Naval Vessel Register
OOA	Out of action
PCU	Pre-Commissioning Unit
PMARS	Property Management and Archive Record System
SASDT	Ship Annual Supplemental Data Table Ship and Aircraft Supplemental Data Table
SECNAVINST	Secretary of the Navy Instruction
UIC	Unit Identification Code
USNS	United States Naval Ship
USS	United States Ship

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